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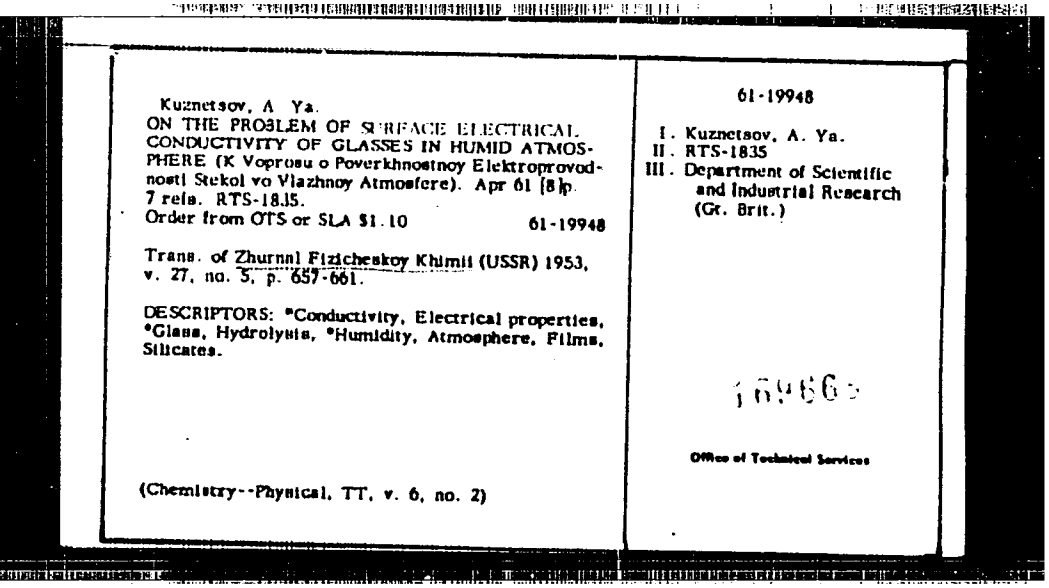

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DESCRIPTORS: *Conductivity, Electrical properties, *Glass, Hydrolysis, *Humidity, Atmosphere, Films, Silicates.

(Chemistry--Physical, TT, v. 6, no. 2)

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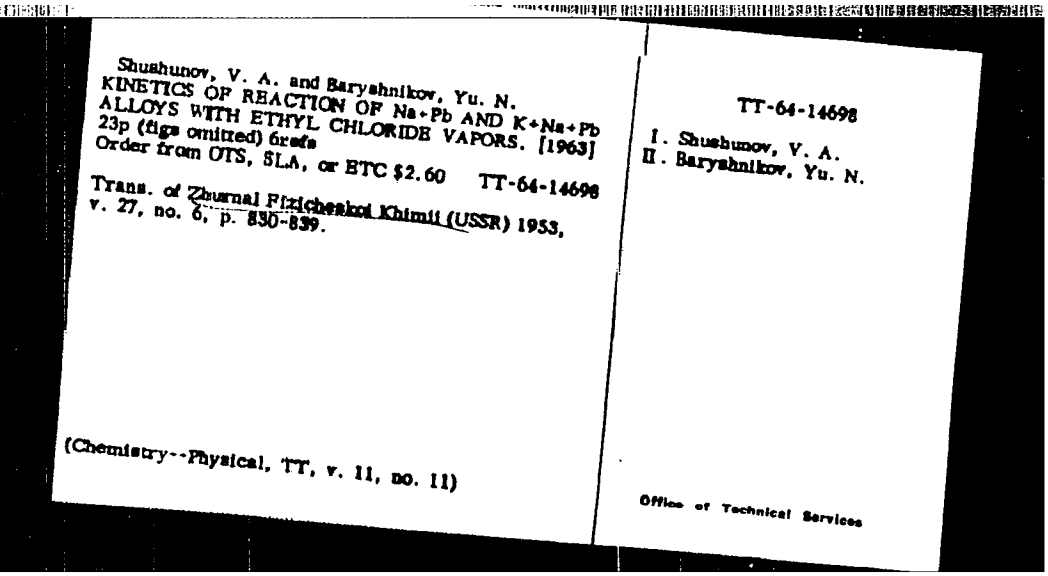

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DESCRIPTORS: *Electrochemistry, *Platinum electrodes, Oxidation, *Polarographic analysis, Reaction kinetics.

There is developed a new method for taking anodic polarograms on the rotating platinum microelectrode which enables its employment for analytical purposes and for studying the mechanism of complicated
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AEC Tr 2495 36,576
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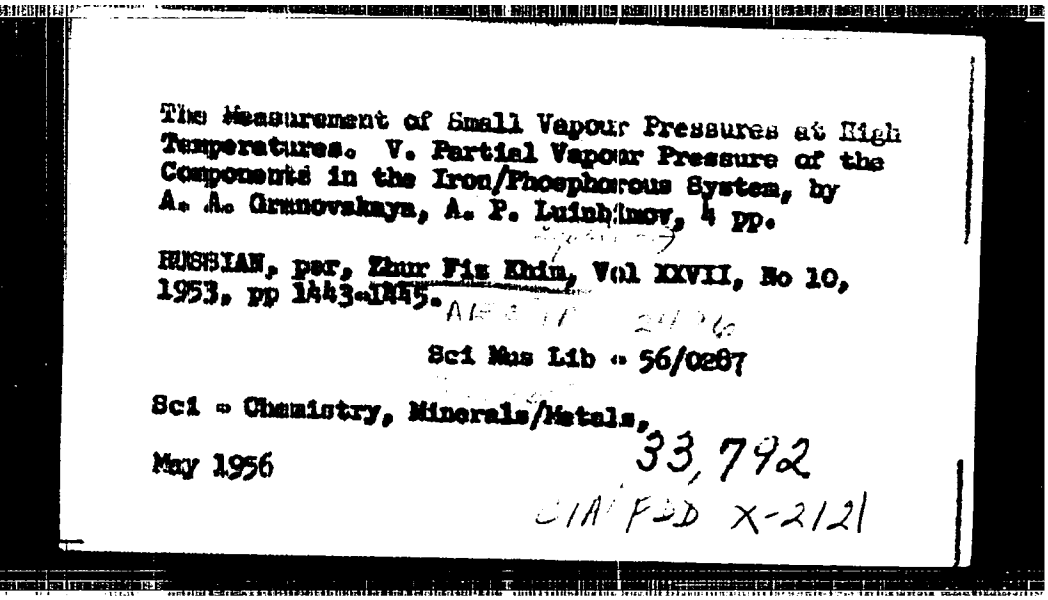

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Navy Tr 1227/NRL 529

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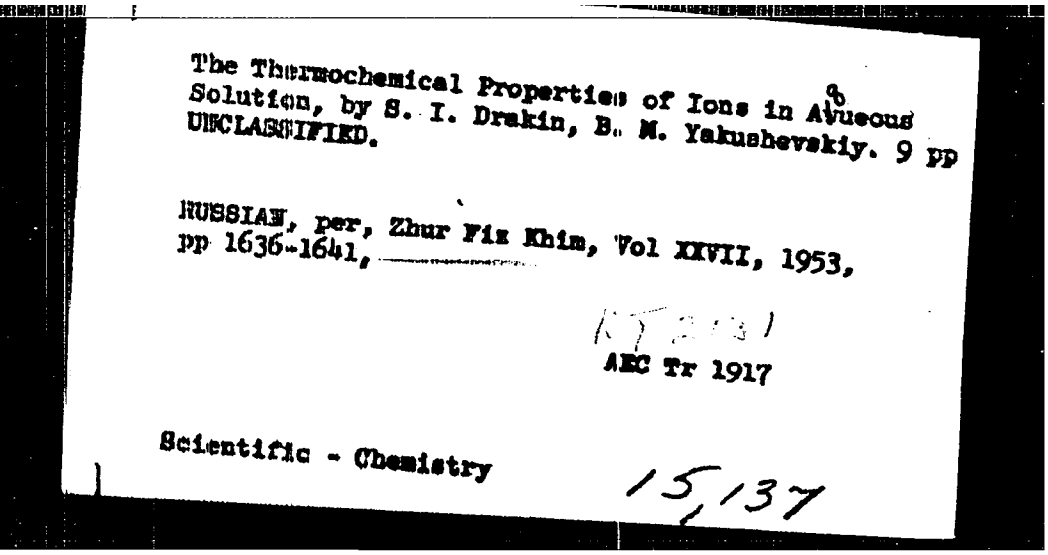

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Sci Mus Lib - 56/0294

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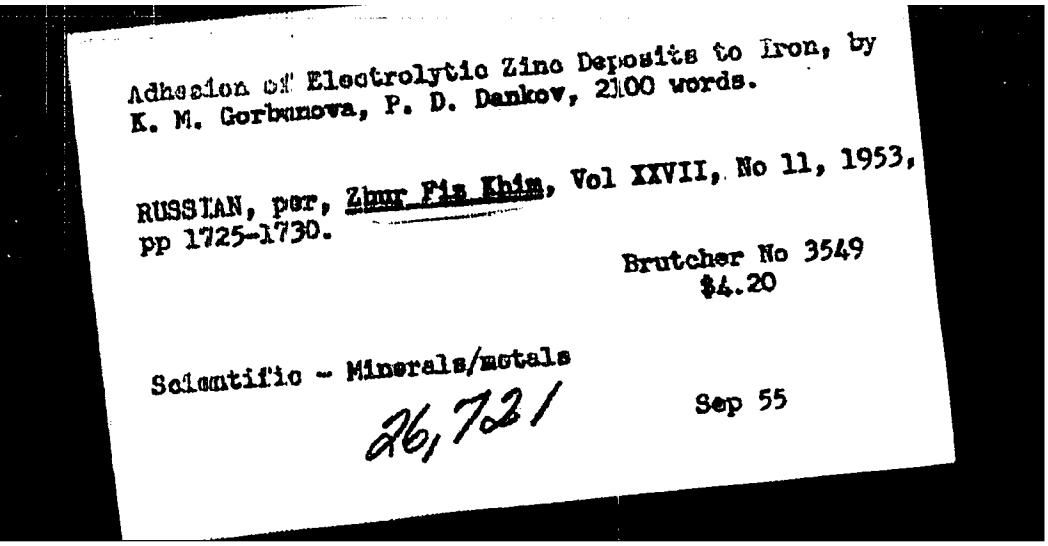

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Brutcher No 3549
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Scientific - Minerals/metals

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Sep 55

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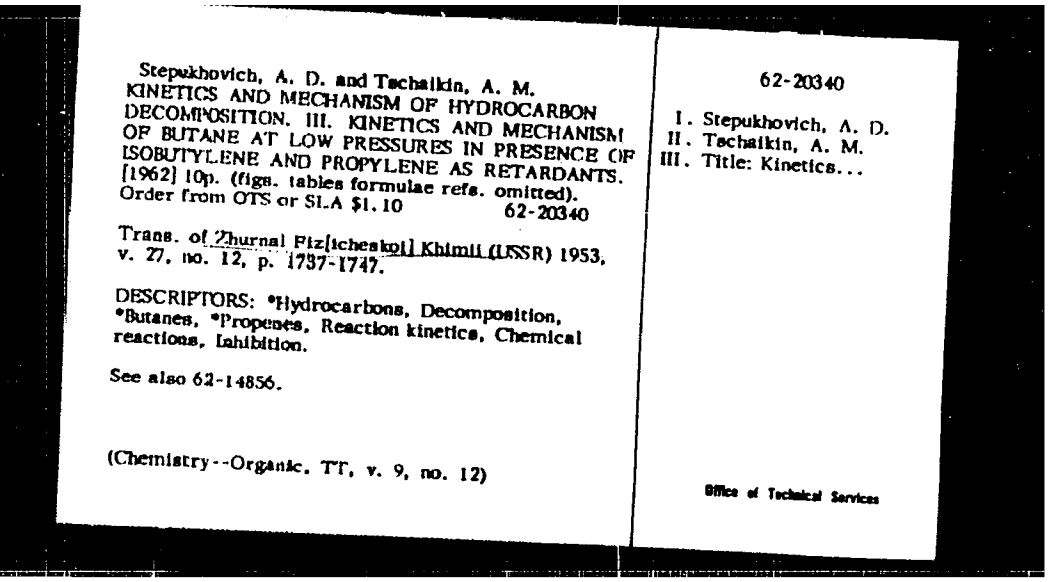

Stepukhovich, A. D. and Tschalkin, A. M.
KINETICS AND MECHANISM OF HYDROCARBON DECOMPOSITION. III. KINETICS AND MECHANISM OF BUTANE AT LOW PRESSURES IN PRESENCE OF ISOBUTYLENE AND PROPYLENE AS RETARDANTS. [1962] 10p. (figs. tables formulae refs. omitted). Order from OTS or SLA $1.10 62-20340

Trans. of Zhurnal Fiz[icheskoi] Khimii (USSR) 1953, v. 27, no. 12, p. 1737-1747.

DESCRIPTORS: *Hydrocarbons, Decomposition, *Butanes, *Propenes, Reaction kinetics, Chemical reactions, Inhibition.

See also 62-14856.

(Chemistry--Organic, TT, v. 9, no. 12)

62-20340

I. Stepukhovich, A. D.
II. Tschalkin, A. M.
III. Title: Kinetics...

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910040-1

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Reducing Action of Hydrogen and Carbon Monoxide upon Iron Oxides at Low Temperatures, by A. N. Kuznetsov,

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Brutcher Tr No 3300

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Scientific - [redacted] Chemistry

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910040-1

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Scientific - Chemistry
CTS 73/Oct 1955

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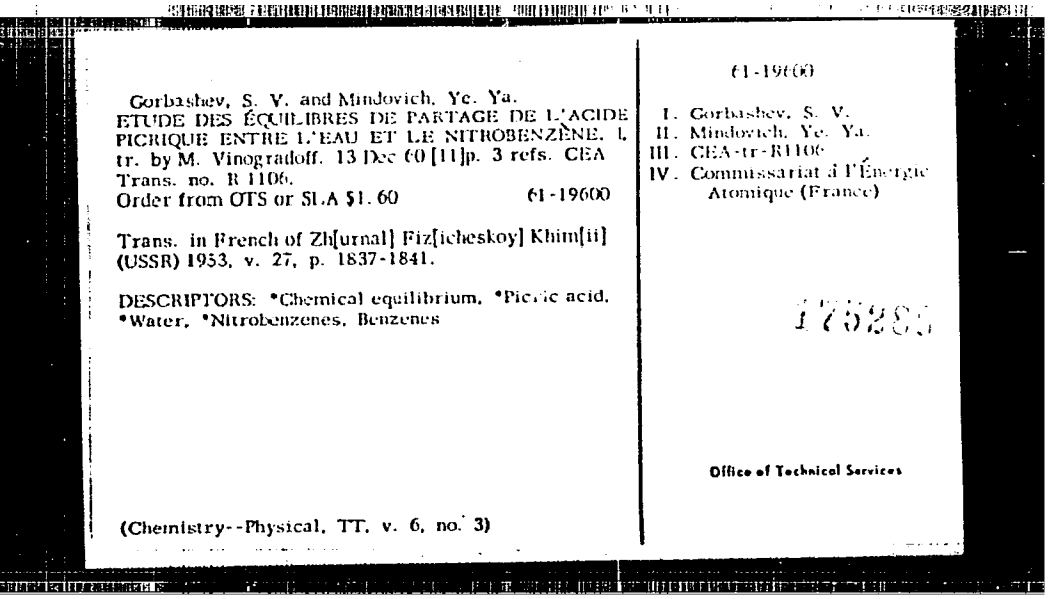

Gorbashev, S. V. and Mindovich, Ye. Ya.
ETUDE DES ÉQUILIBRES DE PARTAGE DE L'ACIDE PICRIQUE ENTRE L'EAU ET LE NITROBENZÈNE. I. tr. by M. Vinogradoff. 13 Dec 60 [11]p. 3 refs. CEA Trans. no. R 1106.
Order from OTS or SLA $1.60 61-19600

Trans. in French of Zh[urnal] Fiz[icheskoy] Khim[ii] (USSR) 1953, v. 27, p. 1837-1841.

DESCRIPTORS: *Chemical equilibrium, *Picric acid, *Water, *Nitrobenzenes, Benzenes

(Chemistry--Physical, TT, v. 6, no. 3)

61-19600

I. Gorbashev, S. V.
II. Mindovich, Ye. Ya.
III. CEA-tr-R1106
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Gorbashev, S. V. and Mindovich, E. Ya.
ETUDE DES EQUILIBRES DE PARTAGE DE L'ACIDE PICRIQUE ENTRE L'EAU ET LE NITROBENZENE, II [Study of the Equilibria of Distribution of Picric Acid Between Water and Nitrobenzene] tr. by M. Vinogradoff. 27 Oct 59 [9]p. 3 refs. no. R 751 (text in French).
Order from OTS or SLA $2.10 61-23754

Trans. in French of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR) 1953, v. 27, no. 12, p. 1842-1847.

DESCRIPTORS: *Chemical equilibrium, *Picric acid, *Water, *Nitrobenzenes, Benzenes.

See also 61-19600

(Chemistry--Physical, TT, v. 6, no. 7)

61-23754

I. Gorbashev, S. V.
II. Mindovich, E. Ya.
III. CEA-tr-R751
IV. Commissariat à l'Energie Atomique (France)

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910040-1

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Delimarskii, Yu. K., Markov, B. F., and Berenblyum, L. S.
DETERMINATION OF COEFFICIENTS OF DIFFUSION OF IONS IN MOLTEN SALTS. (1963) 15p (figs omitted) 8refs
Order from OTS, SLA, or ETC $1.60 TT-61-1441

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1953, v. 27, no. 12, p. 1848-1855. (Abstract available)

DESCRIPTORS: *Electrochemistry, *Fused materials, Salts, Ions, *Silver, Diffusion, Potassium compounds, Sodium compounds, Lithium compounds, Chlorides, Nitrates,

A method for determining the coefficients of diffusion of ions in molten salts, based on measuring the decrease in current with time on a plane-end electrode, is proposed. Up to a certain time after the instant of con-
(Chemistry--Physical, TT, v. 11, no. 11) (over)

TT-61-1441

I. Delimarskii, Yu. K.
II. Markov, B. F.
III. Berenblyum, L. S.

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A Method for the Analysis of Microscopic Quantities of Heavy Water, by R. B. Mardaleishvilli, et al. UNCL.

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CCT-827B

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Electrical Properties of Films of Condensed Aromatic Hydrocarbons on Aqueous Solutions of Inorganic Salts, by M. A. Gurovich, O. G. Ol'man.
RUSSIAN, per, Zhur Fiz Khim, Vol 28, No 1, 1954, pp 19-25.
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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910040-1

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Yatsimirskiĭ, K. B. and Shutov, A. A.
THE THERMOCHEMISTRY OF SOME IODIDE COMPLEXES. 10p. 6 refs. MTWL: 749.
Order from OTS or ETC $1.55 61-17269

Trans. of Zhurnal Fizicheskoĭ Khimii (USSR) 1954, v. 28, no. 1, p. 30-35.

DESCRIPTORS: *Iodides, Complex compounds, *Thermochemistry, Chemical equilibrium.

61-17269

I. Yatsimirskiĭ, K. B.
II. Shutov, A. A.
III. MTWL-749
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Kinetics of the Dark Reaction of a Hydrochloride Mixture and Critical Conditions for Its Combustion, by A. I. Rozlovskiy.
RUSSIAN, per, Zhurnal Fizicheskoy Khimiy, 1964, Vol 28, No 1, pp 51-59.
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CFSTI # 65-60347

Aug 65 288,867

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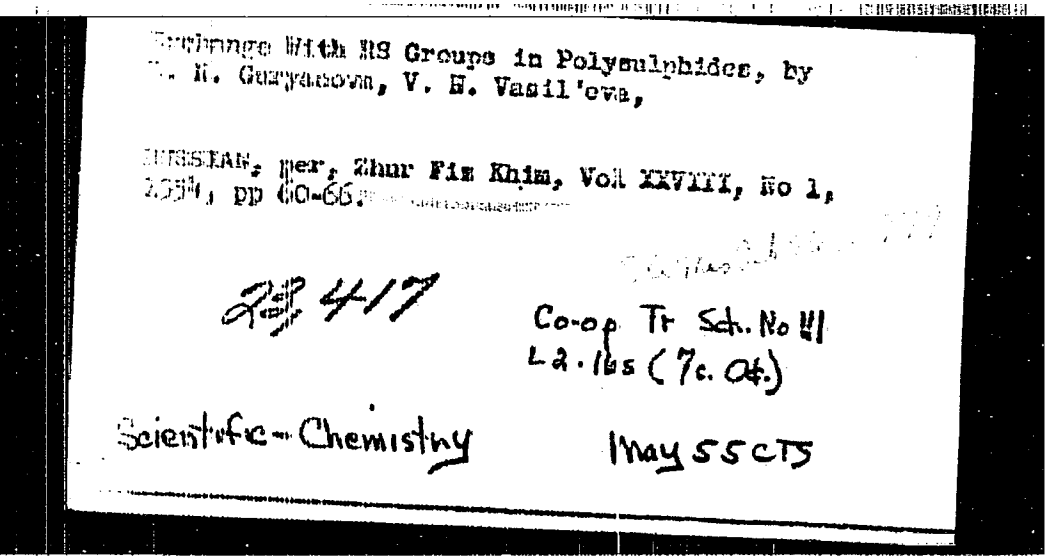

Exchange With HS Groups in Polysulphides, by
... N. Guryanova, V. N. Vasil'eva,

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May 55 CTS

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Certain Exchange Reactions of Sulphur, by
E. M. Gur'yanova, 5 pp.

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May 57 CTS/dax

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Formation of Silver Bromide Complexes in Solutions, by K. S. Lyalikov, V. N. Piskunova. RUSSIAN, per. Zhur Fiz Khim, Vol XXVIII, No 1, 1954, pp 127-134.
NLL Ref: 5828.4 1964 (10,496) (loan copy)

OTS T-64-10910

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910040-1

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Calculation of the Heats of Formation of Inorganic Compounds, by V. V. Fomin, 8 pp

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, pp 186[illegible]-190[illegible], 1954.

SLA R-2849

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Mechanism of the Oxidation of Hydrocarbons in Gaseous Phase, IV. High and Low-Temperature Oxidation of Propane, by N. Ya. Chernyak, etal 25 pp.

RUSSIAN, per Zhurnal Fizicheskoi Khimii, Vol XXVIII, No 2, 1954, pp 240-253.

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Temperature Effect at the Cathode During Electro-Precipitation of Powderous Cadmium, by D. N. Gritsan and M. Bulgakova, 12 pp. RUSSIAN, per. Zhur Fiz Khim, Vol XXVIII, 1954, pp 258-264.
CIA/FDD X-5668

A.M.

Sci - Elec
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Protsenko, P. I. and Popovskaya, N. P.
ELECTRICAL CONDUCTIVITY OF THE BINARY SYSTEMS: CADMIUM NITRATE-POTASSIUM NITRATE, CADMIUM NITRATE-RUBIDIUM NITRATE AND CADMIUM NITRATE-SILVER NITRATE IN FUSIONS [Elektroprovodnost' Binarnykh Sistem: Nitrat Kadmiya-Nitrat Kaliya, Nitrat Kadmiya-Nitrat Rubidiya i Nitrat Kadmiya-Nitrat Serebra v Rasplavakh]. [1963] [15p] (figs omitted) 8refs
Order from OTS, SLA, or ETC $1.60 TT-64-14400

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1954, v. 28 [no. 2] p. 299-304.
Another trans. is available from SLA as RT-2571, 17p.

DESCRIPTORS: *Fused materials, Salts, *Cadmium compounds, *Potassium compounds, *Rubidium compounds, *Silver compounds, *Nitrates, Electrical conductivity,

(Chemistry--Physical, TT, v. 11, no. 10) (over)

TT-64-14400

I. Protsenko, P. I.
II. Popovskaya, N. P.
III. RT-2571

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Solution and Adsorption of Hydrogen by Dispersed Palladium-Silver Alloys, by Zh. L. Vert, I. P. Tverdovskiy, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, SSSR, 1954, Vol XXVIII, No 2, pp 317-327.

JPRS-NY-L-77

Assoc Tech Serv 20827R
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Sci - Chem
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Impact of Anions on the Temperature Effect on the Cathode During Electro-Precipitation of Powderous Metals, by D. N. Gritsan, A. M. Bulgakova, 13 pp.
RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, 1954, pp 337-344.
CIA/FDD X-3669

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Thermodynamic Studies at Low Temperatures. I. Measurement of Temperatures Between 12 and 300°K, by P. G. Strelkov, A. S. Borovik-Romanov, M. P. Orlova, 15 pp.

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AEC Tr 3229

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S-5130 (NY-2539)

Two Types of Homopolar Bonds in Chemical Adsorption, by F. F. Vol'kenshteyn, 16 pp.

RUSSIAN, per, Vol XXVIII, Zhur Fiz Khim, No 3, [illegible] 1954, pp 422-432.

JPRS L-791-N

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THE EFFECT OF TEMPERATURE ON THE LOWER CONCENTRATION LIMIT OF FLAME PROPAGATION, BY M. A. PESHKIN.

RUSSIAN, PER, ZHUR FIZ KHIM, VOL XXVIII, 1954, PP 433, 434.

NLL M. 3869

SCI - PHYS

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On the Relationship Between the Corrosion Rate of Iron and pH of (KCl) Salt Solution, by L. K. Lepin, A. Ya. Vayvade.

Full tr.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXVIII, No 3, 1954, pp 435-439.

Navy Tr 1531/NRL-633

Sci - Chem

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910040-1

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The Oxidation of Iron and Steel at High Temperatures,
by N. P. Zhuk, B. V. Linchevskiy.
RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 3,
1954, pp 440-452.
BIKSI 3789

Scmi - Engr
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Thermodynamic Studies at Low Temperatures, II. Measurements of the Heat Capacity of Solid Bodies and Liquids Between 12 and 300°K, by I. G. Strelkov, E. S. Itskevitch, V. N. Kostrukov, G. G. Mirskaya, B. N. Samoilov, 21 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, 1954, pp 459-472.

AEC Tr 3266

Sci - Chem

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910040-1

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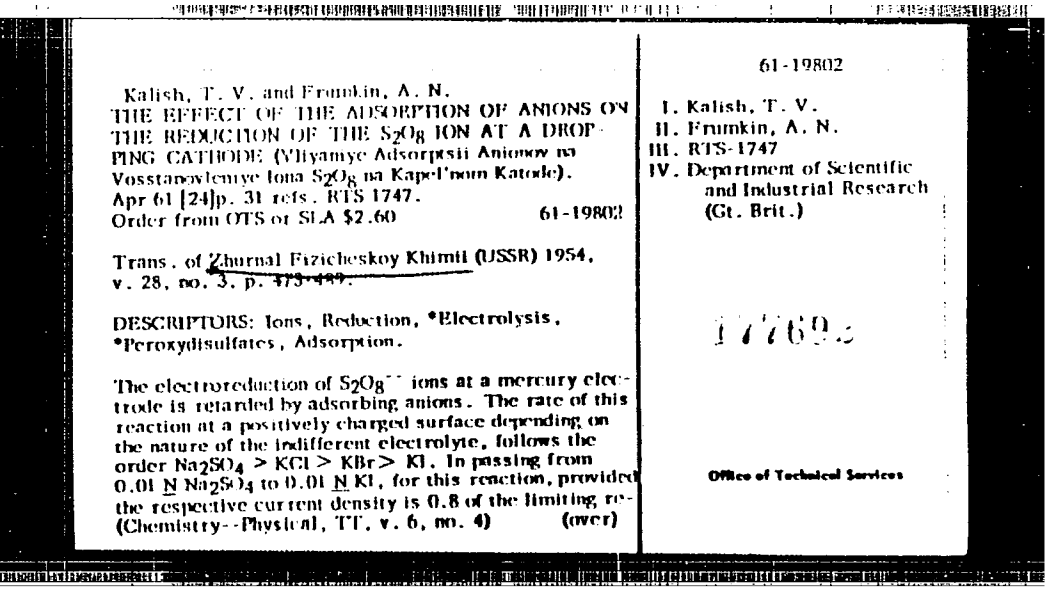

Kalish, T. V. and Frumkin, A. N.
THE EFFECT OF THE ADSORPTION OF ANIONS ON THE REDUCTION OF THE S_2O_8 ION AT A DROPPING CATHODE (Vliyanye Adsorpsii Anionov na Vosstanovlenive Iona S_2O_8 na Kapel'nom Katode).
Apr 61 [24]p. 31 refs. RTS 1747.
Order from OTS or SLA $2.60 61-19802

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1954, v. 28, no. 3, p. 473-449.

DESCRIPTORS: Ions, Reduction, *Electrolysis, *Peroxydisulfates, Adsorption.

The electroreduction of $S_2O_8^{--}$ ions at a mercury electrode is retarded by adsorbing anions. The rate of this reaction at a positively charged surface depending on the nature of the indifferent electrolyte, follows the order Na_2SO_4 > KCl > KBr > KI. In passing from 0.01 N Na_2SO_4 to 0.01 N KI, for this reaction, provided the respective current density is 0.8 of the limiting re-
(Chemistry--Physical, TT, v. 6, no. 4) (over)

61-19802

I. Kalish, T. V.
II. Frumkin, A. N.
III. RTS-1747
IV. Department of Scientific and Industrial Research (Gt. Brit.)

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Retarding Effect of Gaseous Reaction Products on the Rate of Reduction of Iron Oxides With Hydrogen and Carbon Monoxide, by G. I. Chufarov, et al.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 3, 1954, pp 490-497.

DSIR LLU M.1549

Sci - Chem

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Characteristic Frequencies of Alkenes, by P. P. Grundev, 7 pp.

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Low Temperature Thermodynamic Investigations. 3. Heat Capacity of Potassium Chloride Between 12 and 300°K. Entropy of Potassium Chloride at 298.16°K by P. G. Strelkov, E. S. Itzkevich, V. N. Kostryukov, G. G. Mirskaya, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 4, 1954, pp 645-649.

Sci Mus Lib Tr 57/3675

Sci - Physics
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On the Theory of Nickel-Arsenide Structures, by by V. A. Zhdanov, M. S. Tskhay, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 4, 1954, pp 688-691.

RT 4602
Sci Mu Lib Tr 55/0845
AEI E 489
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Scientific - Physics Jul 55 CTS

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Investigations in the Field of Rotational Isomerism. II. Rotational Isomerism in Isoprene, by V. N. Nikitin, T. V. Yakovleva, 6 m pp.

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Investigation of the Thermodynamic Properties of Binary Metallic Systems Using Electromotive Forces, [redacted] Cd-Bi, by A. V. Nokol'skaya, Ya. I. Gerasimov.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXVIII, No 4, 1954, pp 713-728.

T.I.L. T.4551 35,742

Sci - Physics, [redacted]

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Process of Electrochemical Liberation of Oxygen on Nickel, by L. M. Eline, T. I. Borisova, Ts. I. Zalkind. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim SSSR, Vol XXVIII, No 5, 1954, pp 786-796.

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Scientific - Chemistry Jan 55 CTS/DEX

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T-1401 21,101

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Investigations of the Domain of Radical Reaction Mechanism. III. Decomposition of Benzoyl Peroxide and Its p,p'-dinitro-and p,p'Dimetoxy-Derivatives in Benzene and Nitrobenzene, by A. I. Milyushinskaya, Kh. S. Bagdasar'yan.

RUSSIAN, per, Zhur Fiz Khim, Tol XXVIII, No 5, 1954, pp 797-800.

DSIR LLU M.1514
(loan)

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Sci - Chem

Oct 60

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Electrochemical Behavior of Iron in Hot Concentrated Alkali Solutions. Part I, by V.V. Losev, B.N. Kabanov.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 5, 1954, pp 824-836.

NRL Tr No 848

Sci - Min/Met
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The Photoconductivity of Dyed Organic Film When Exposed to Visible Light, by A. T. Vartanyan, I. A. Karpovich, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 5, 1954, pp 856-864.

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Sci
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Nov 60

133,115
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